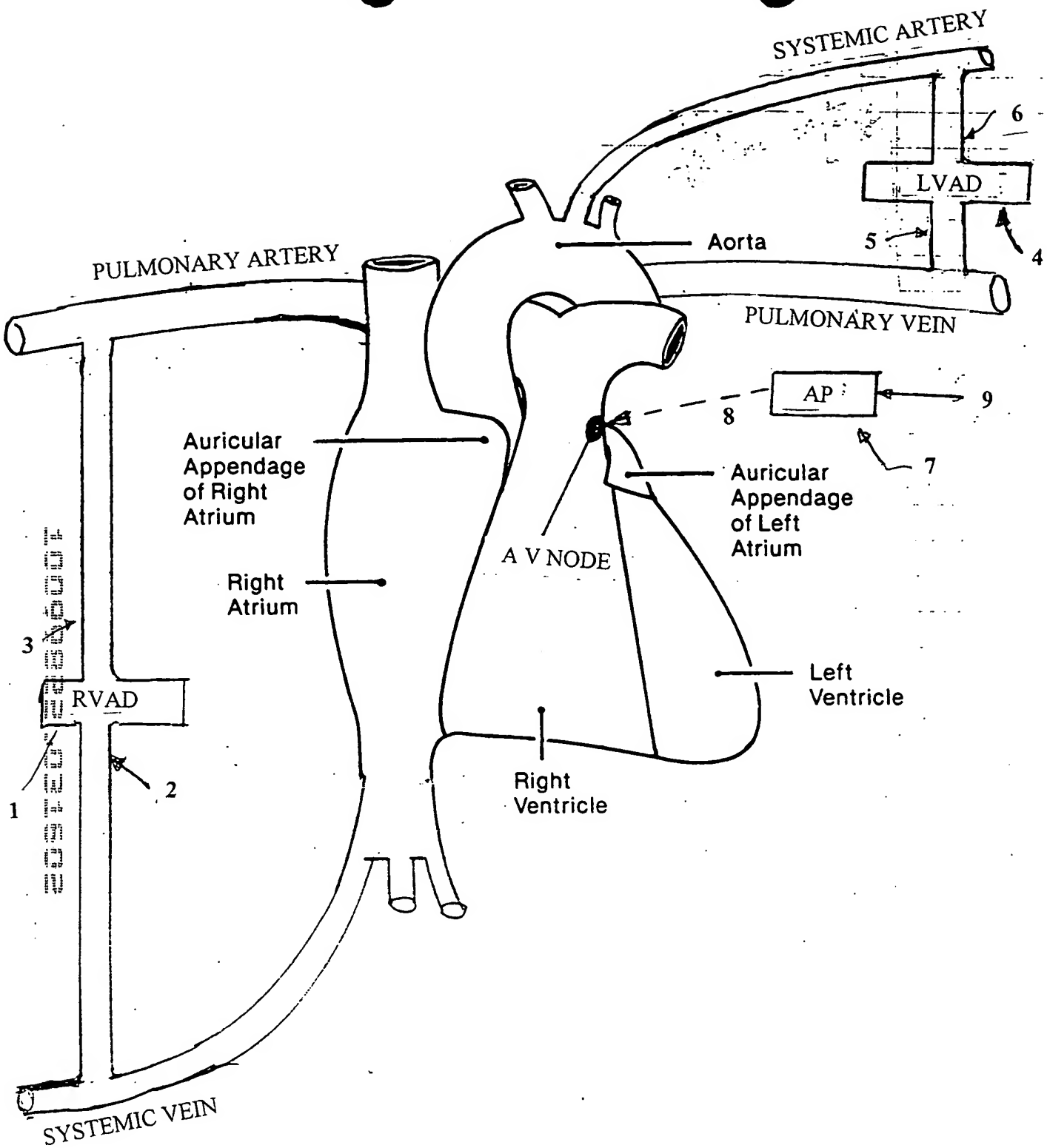
SYSTEMIC ARTERY
6
LVAD
5
4
Aorta
PULMONARY ARTERY
PULMONARY VEIN
AP
9
8
7
Auricular Appendage of Right Atrium
Auricular Appendage of Left Atrium
A V NODE
Right Atrium
3
RVAD
Left Ventricle
1
2
Right Ventricle
SYSTEMIC VEIN

Figure 1

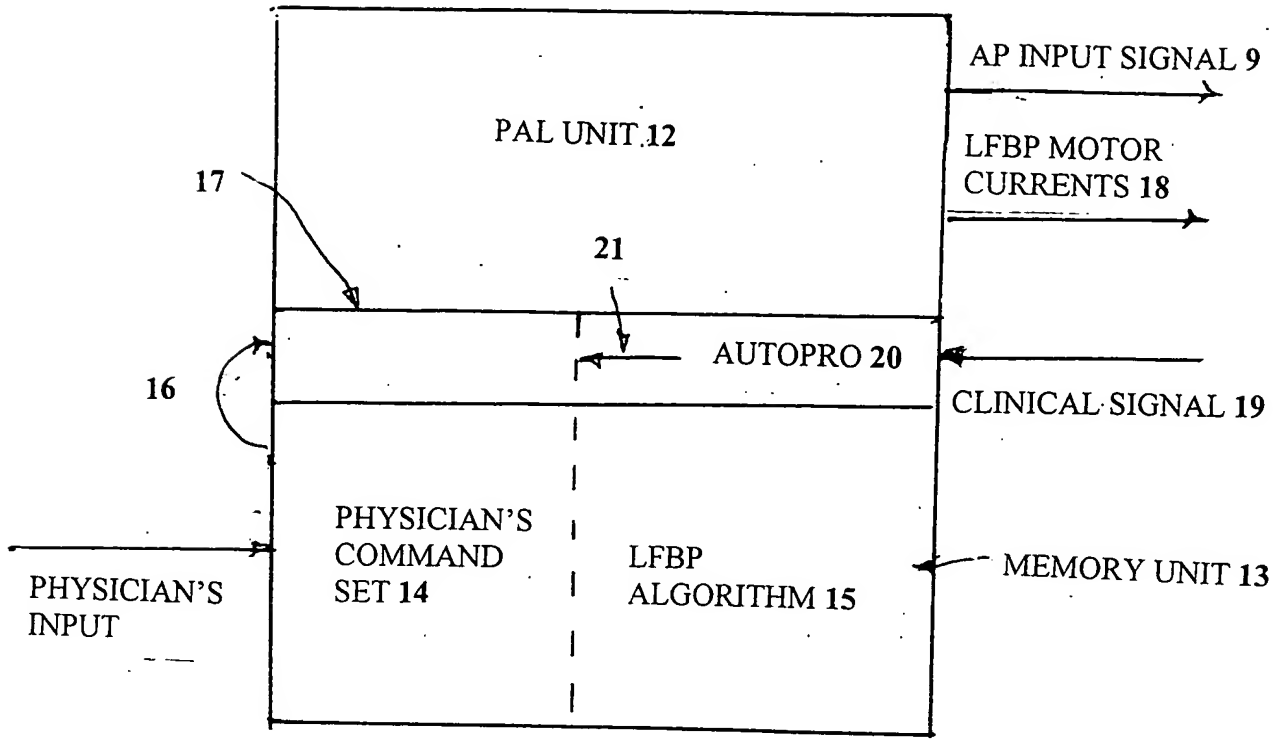
DIGITAL SIGNAL PROCESOR 11
PAL UNIT 12
AP INPUT SIGNAL 9
LFBP MOTOR CURRENTS 18
17
21
AUTOPRO 20
16
CLINICAL SIGNAL 19
PHYSICIAN'S COMMAND SET 14
LFBP ALGORITHM 15
MEMORY UNIT 13
PHYSICIAN'S INPUT

Figure 2.

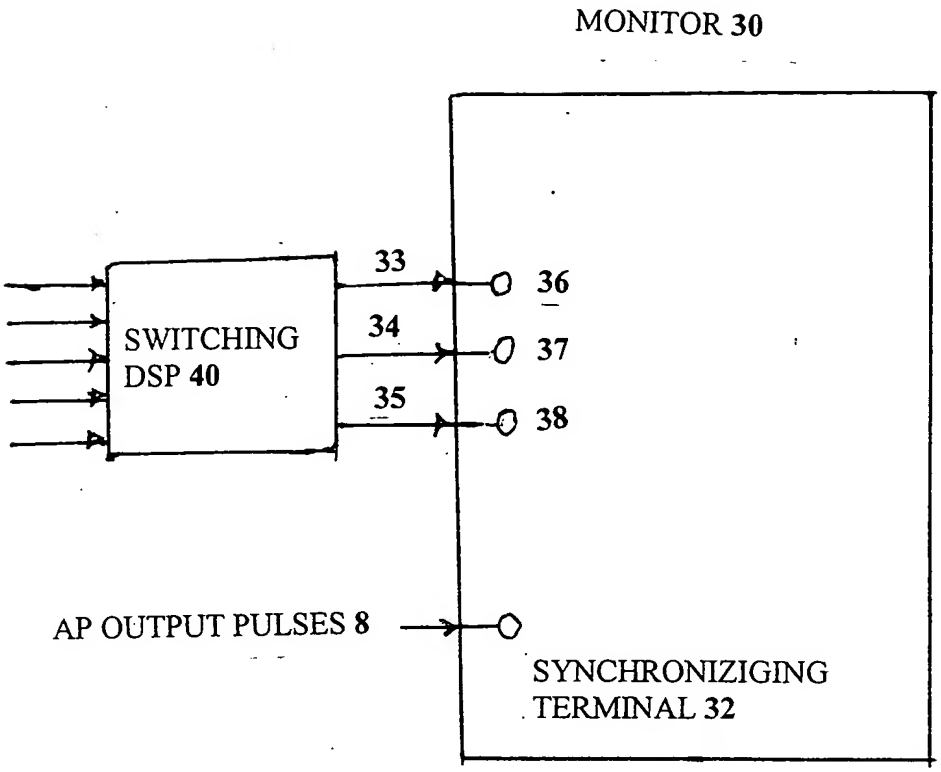
MONITOR 30
SWITCHING
DSP 40
39
33
34
35
36
37
38
AP OUTPUT PULSES 8
SYNCHRONIZIGING
TERMINAL 32

Figure 3

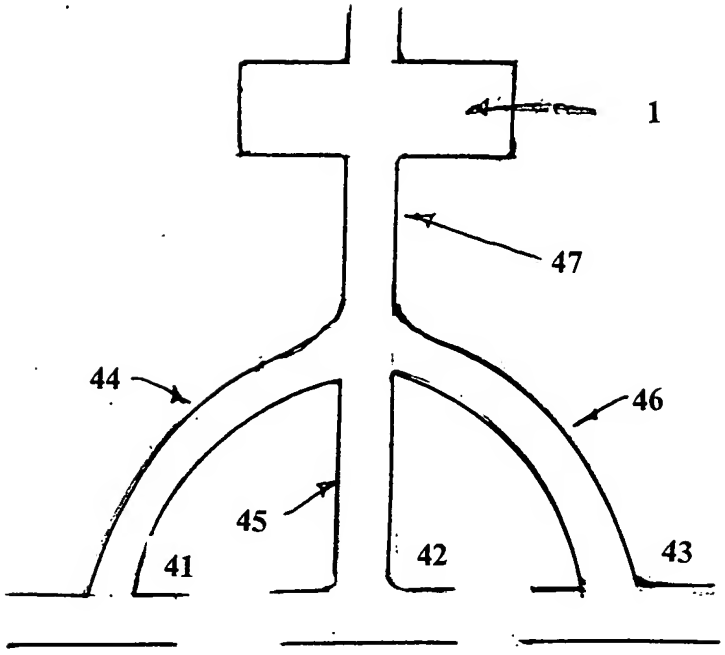

Figure 4

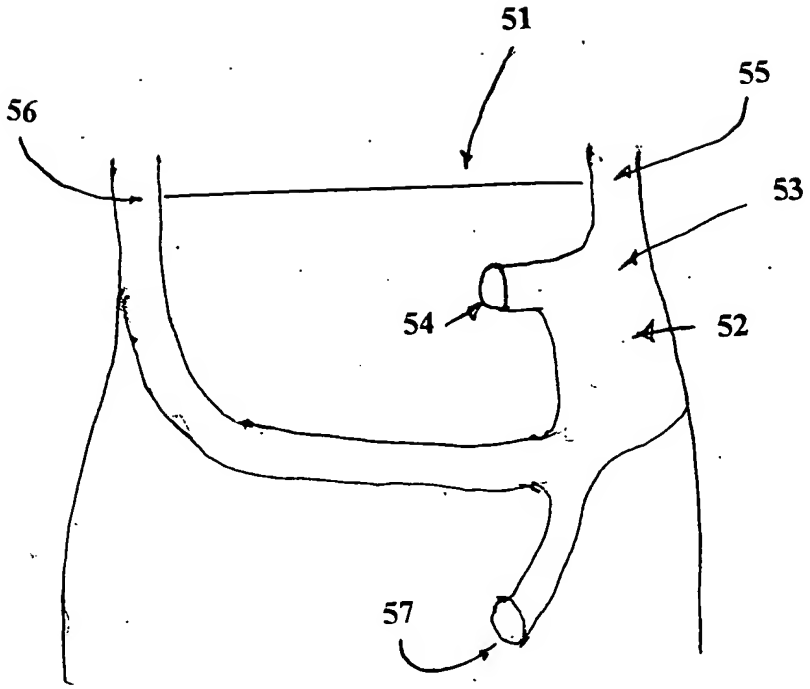

Figure 5

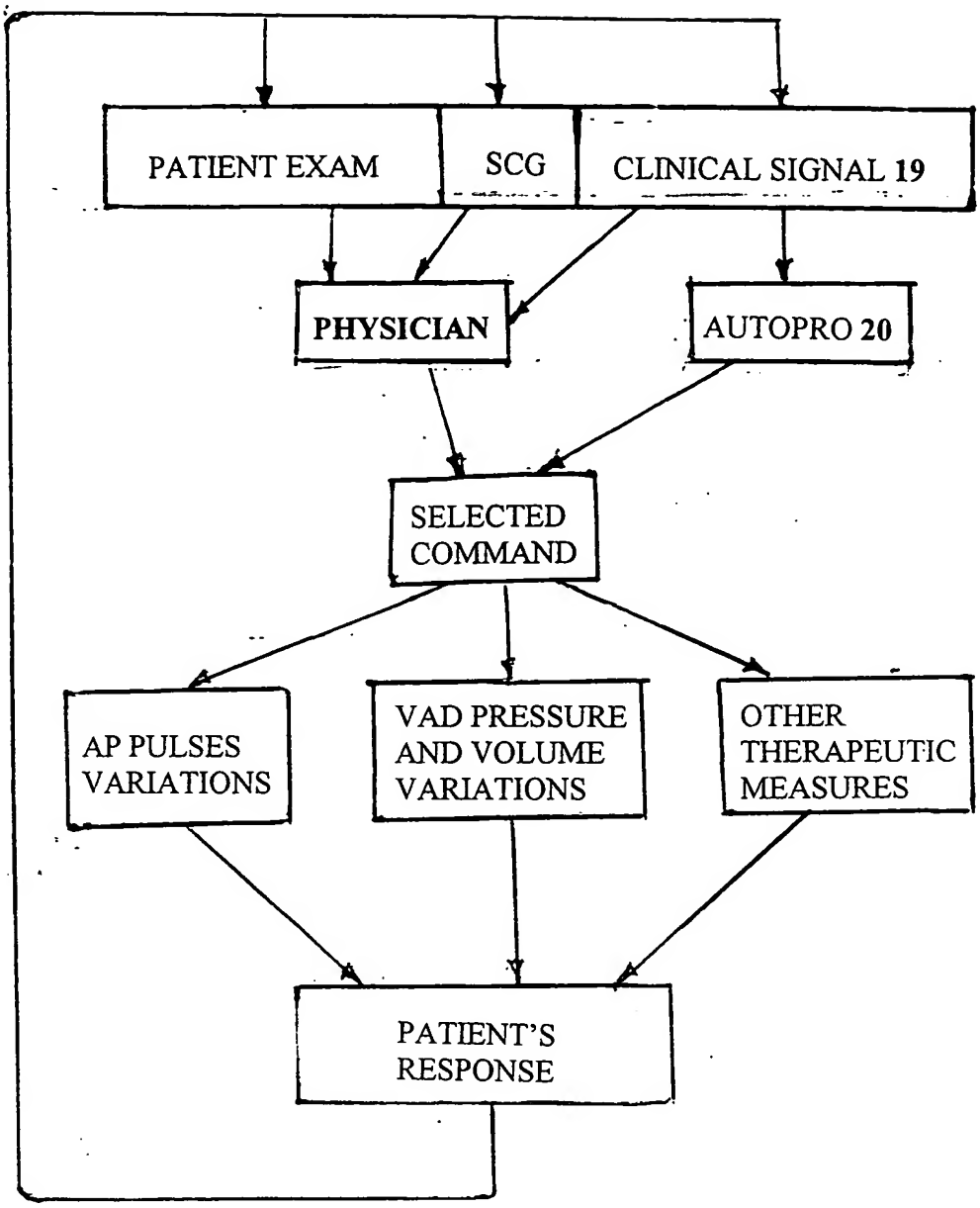
PATIENT EXAM
SCG
CLINICAL SIGNAL 19
PHYSICIAN
AUTOPRO 20
SELECTED COMMAND
AP PULSES VARIATIONS
VAD PRESSURE AND VOLUME VARIATIONS
OTHER THERAPEUTIC MEASURES
PATIENT'S RESPONSE

Figure 6

OIPE
SEP 3 0 2002
PATENT & TRADEMARK OFFICE
JC54

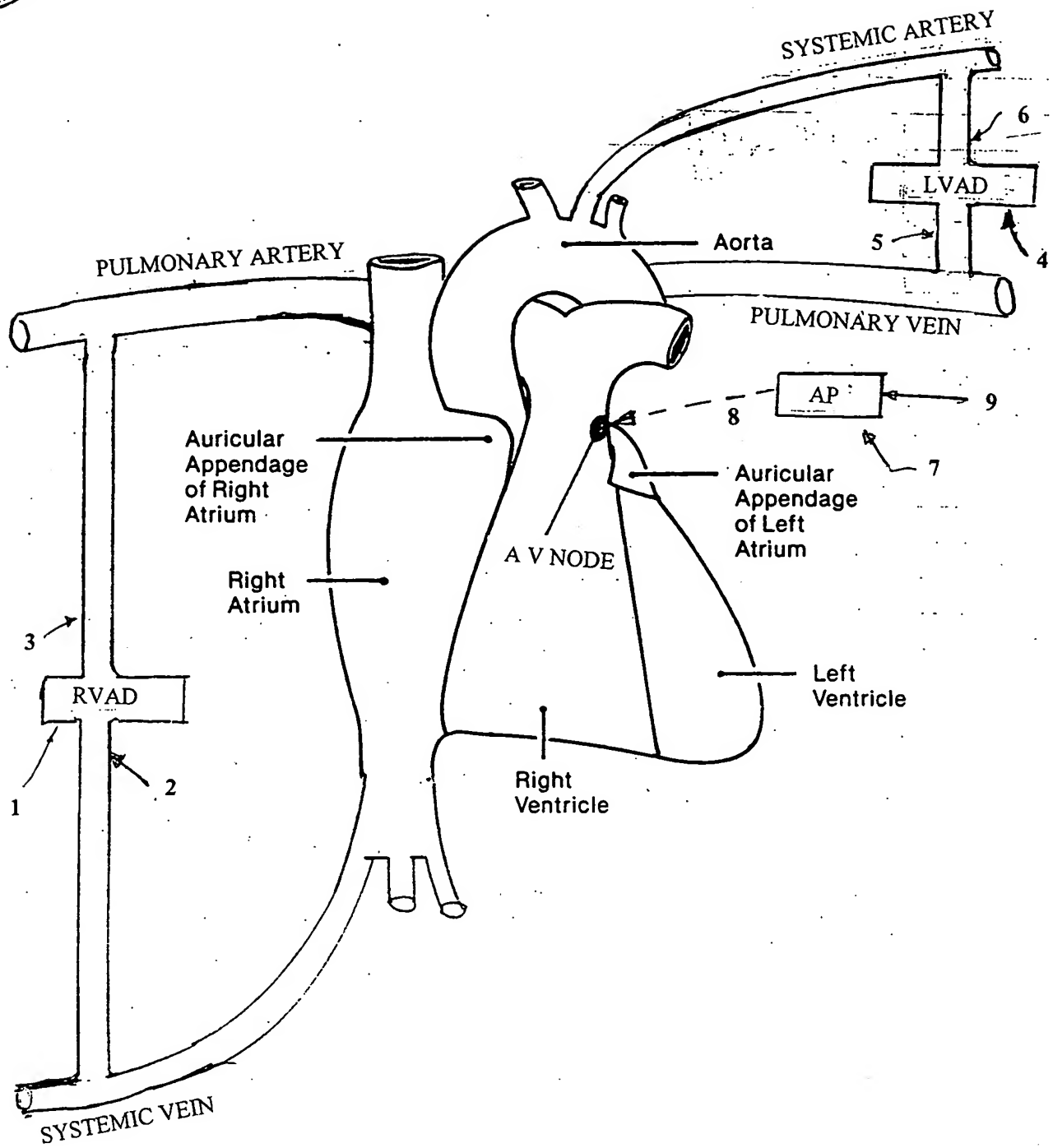

Fig. 1

OIPE JC54
SEP 3 0 2002
PATENT & TRADEMARK OFFICE

DIGITAL SIGNAL PROCESOR 11

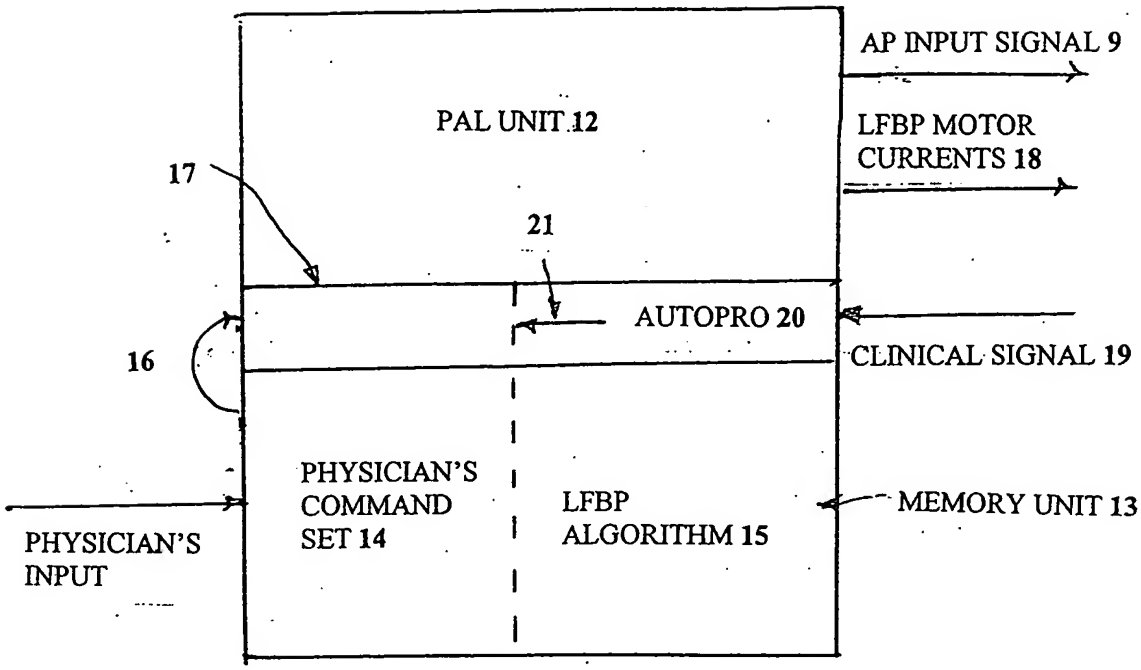

Fig. 2

OIPE
SEP 3 0 2002
PATENT & TRADEMARK

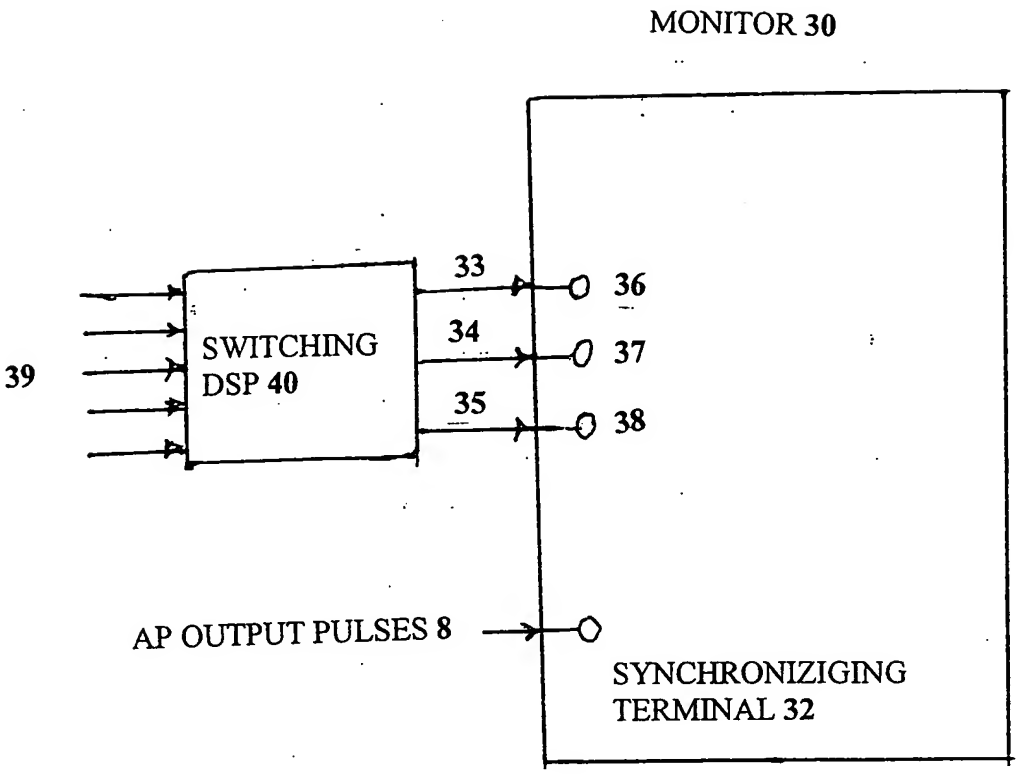

Fig. 3

OIPE
SEP 30 2002
JC54
PATENT & TRADEMARK OFFICE

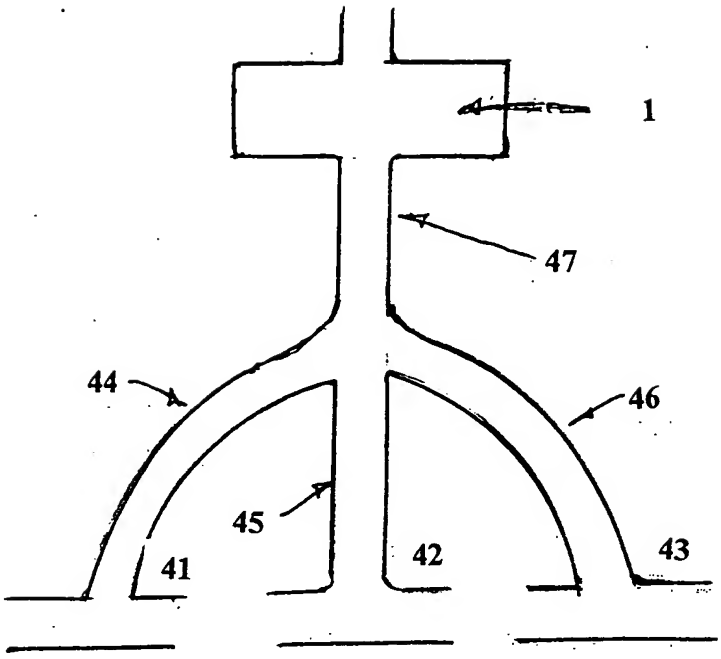

Fig. 4

OIPE
SEP 3 0 2002
PATENT & TRADEMARK OFFICE

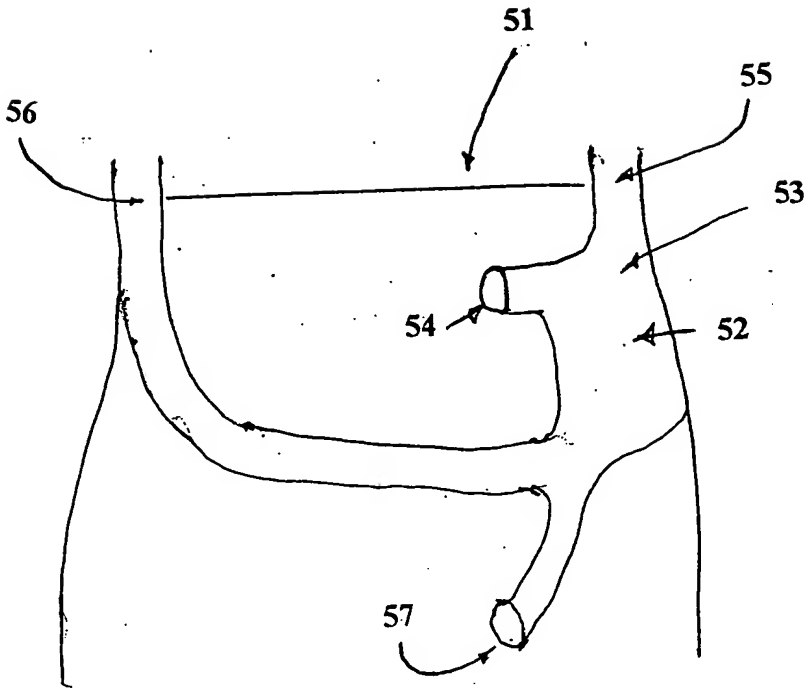

Fig. 5

OIPE
SEP 3 0 2002
PATENT & TRADEMARK OFFICE
JC54

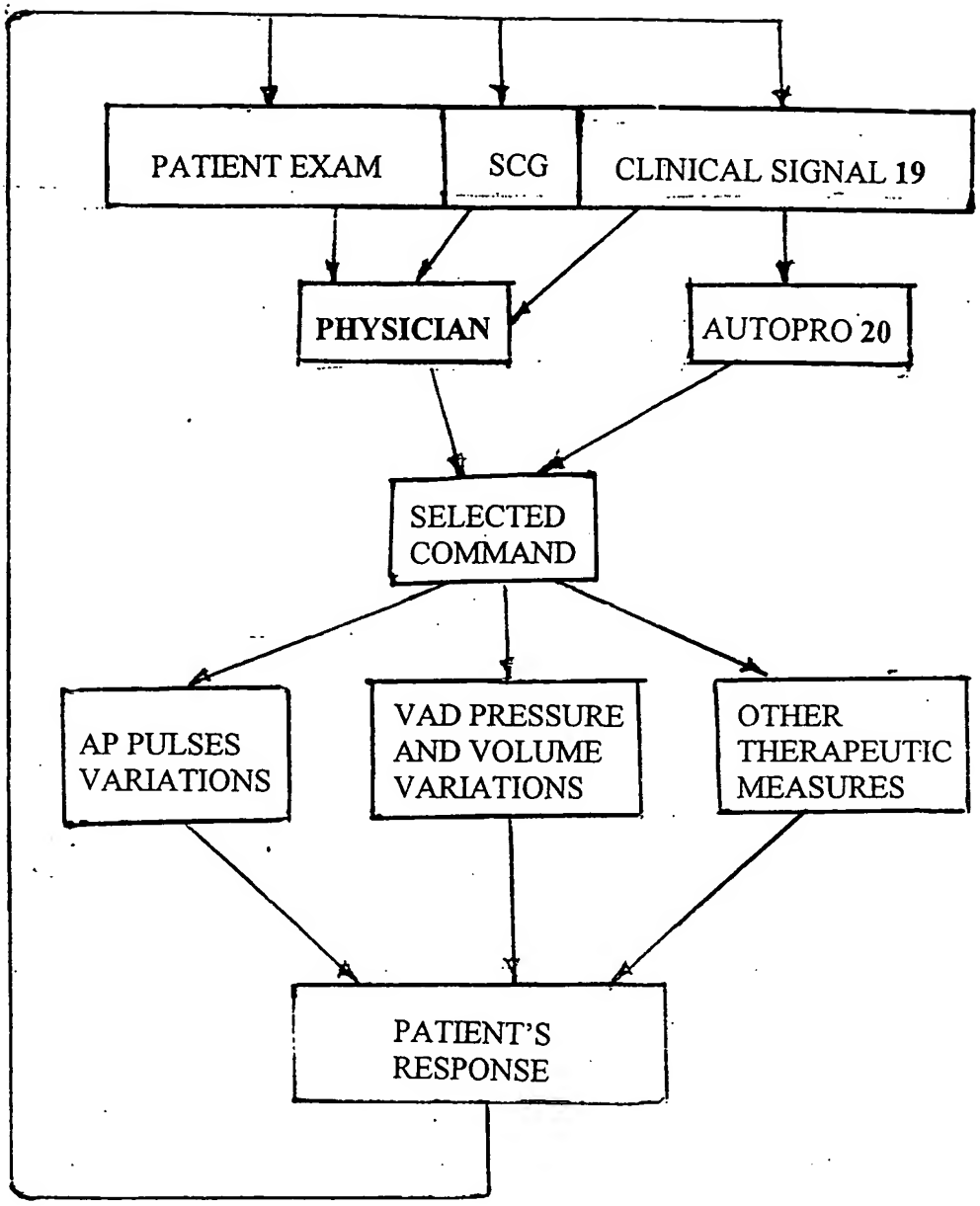

Fig. 6